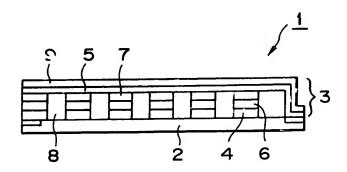
Atty Docket No. 09792909-5311
Filing Date: December 4, 2001
U.S. Serial No.: 10/006,007
Inventors: Katsuhisa ARATANI
"METHOD TO PRODUCE DATA CELL REGION AND

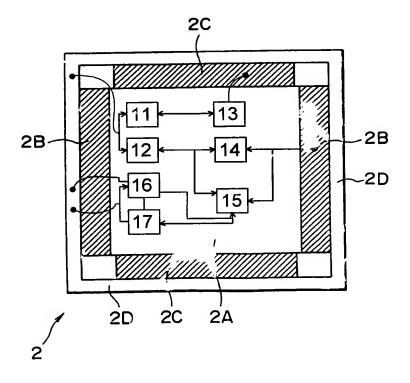
SYSTEM REGION FOR SEMICONDUCTOR MEMORY"

Page 1 of 18

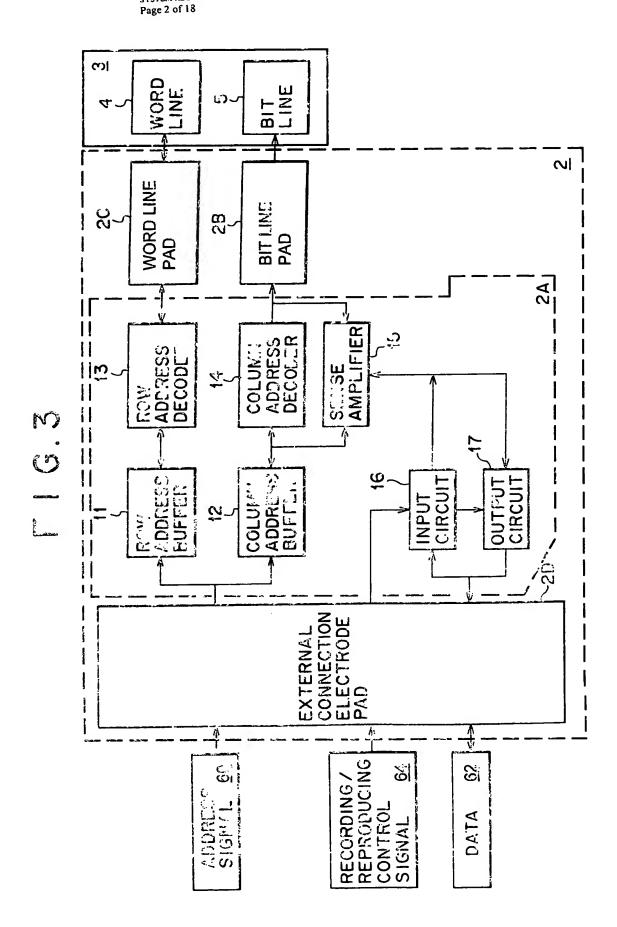
F1G.1

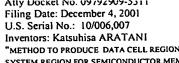


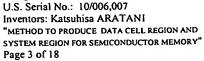
F I G. 2

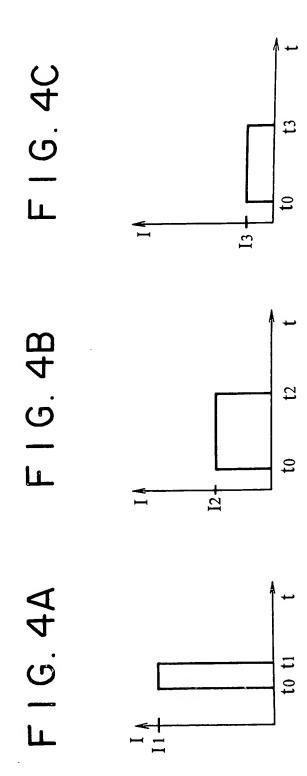


Atty Docket No. 09792909-5311
Filing Date: December 4, 2001
U.S. Serial No.: 10/006,007
Inventors: Katsuhisa ARATAN1
"METHOD TO PRODUCE DATA CELL REGION AND
SYSTEM REGION FOR SEMICONDUCTOR MEMORY"

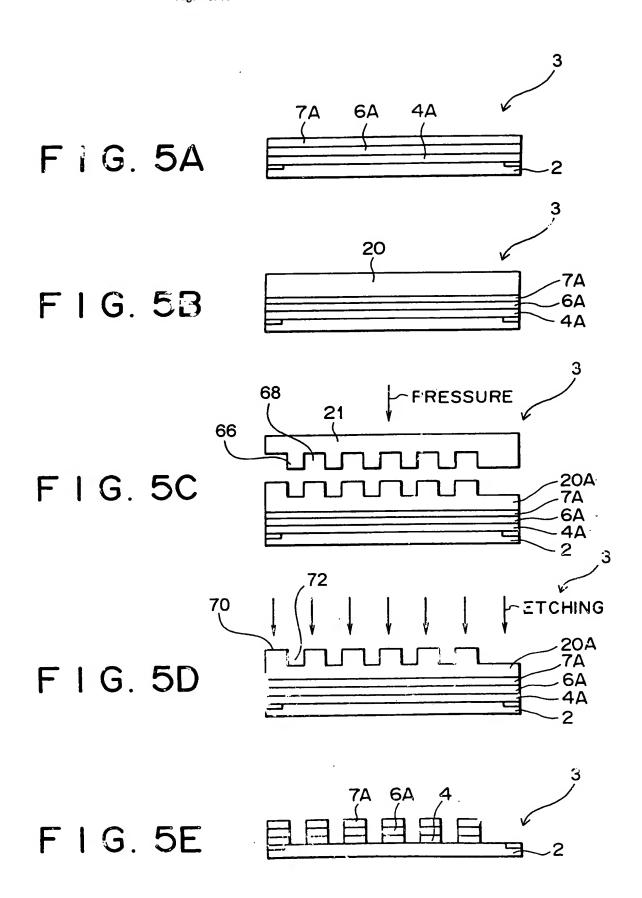








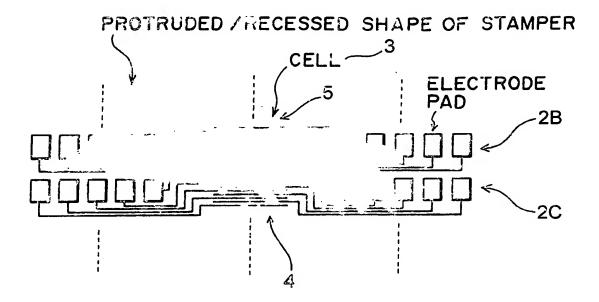
Atty Docket No. 09792909-5311
Filing Date: December 4, 2001
U.S. Serial No.: 10/006,007
Inventors: Katsuhisa ARATANI
"METHOD TO PRODUCE DATA CELL REGION AND
SYSTEM REGION FOR SEMICONDUCTOR MEMORY"
Page 4 of 18

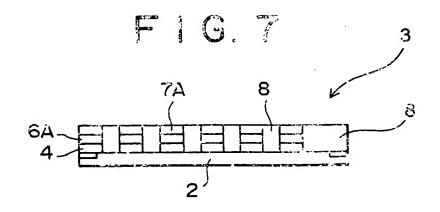


Atty Docket No. 09792909-5311 Filing Date: December 4, 2001 U.S. Serial No.: 10/006,007 Inventors: Katsuhisa ARATANI "METHOD TO PRODUCE DATA CELL REGION AND SYSTEM REGION FOR SEMICONDUCTOR MEMORY"

Page 5 of 18

F1G.6





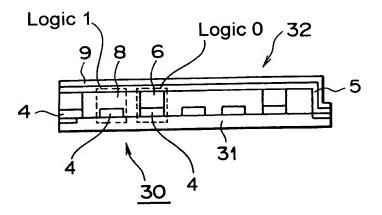
Filing Date: December 4, 2001 U.S. Serial No.: 10/006,007 Inventors: Katsuhisa ARATANI "METHOD TO PRODUCE DATA CELL REGION AND SYSTEM REGION FOR SEMICONDUCTOR MEMORY" Page 6 of 18 **ELIMINATION** F 1 G. 8A **5A** 24 7A-FIG. 8L -PRESSURE 25 **5A** 8 FIG. 8C 24A **ETCHING** 24A **7A** F I G. 8D 6A -8

F 1 G. 8E

Atty Docket No. 09792909-5311

Atty Docket No. 09792909-5311
Filing Date: December 4, 2001
U.S. Serial No.: 10/006,007
Inventors: Katsuhisa ARATANI
"METHOD TO PRODUCE DATA CELL REGION AND
SYSTEM REGION FOR SEMICONDUCTOR MEMORY"
Page 7 of 18

F I G. 9



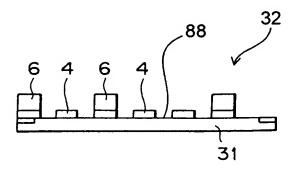
U.S. Serial No.: 10/006,007 Inventors: Katsuhisa ARATANI "METHOD TO PRODUCE DATA CELL REGION AND SYSTEM RECION FOR SEMICONDUCTOR MEMORY" 32 Page 8 of 18 6A F I G. 10A 44 31 32 -20 FIC 10P **6A** 44 31 74 76 78 **PRESSURE** 78 F I G. 10C 20A 6A 4A 31 82 84 80 -32 32 **ETCHING** 20A F I G. 10D 6A 31 -32 86 -F I G. 10E

Atty Docket No. 09792909-5311 Filing Date: December 4, 2001 Atty Docket No. 09792909-5311 Filing Date: December 4, 2001 U.S. Serial No.: 10/006,007 Inventors: Katsuhisa ARATANI

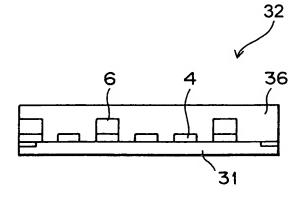
"METHOD TO PRODUCE DATA CELL REGION AND SYSTEM REGION FOR SEMICONDUCTOR MEMORY"

Page 9 of 18

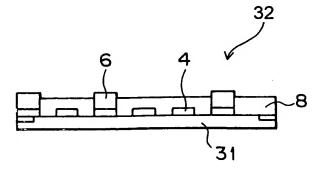
F I G. 11A



F I G. 11B



F I G. 11C



Atty Docket No. 09792909-5311 Filing Date: December 4, 2001 U.S. Serial No.: 10/006,007 Inventors: Katsuhisa ARATANI

"MSTHOD TO PRODUCE DATA CELL REGION AND SYSTEM REGION FOR SEMICONDUCTOR MEMORY"

Page 10 of 18

F I G. 12

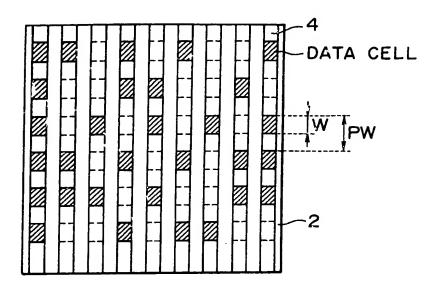
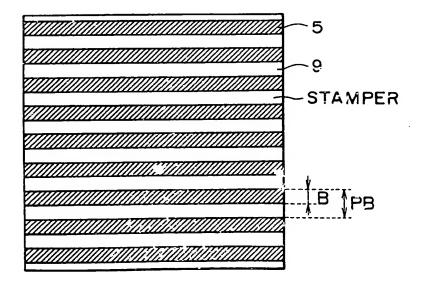


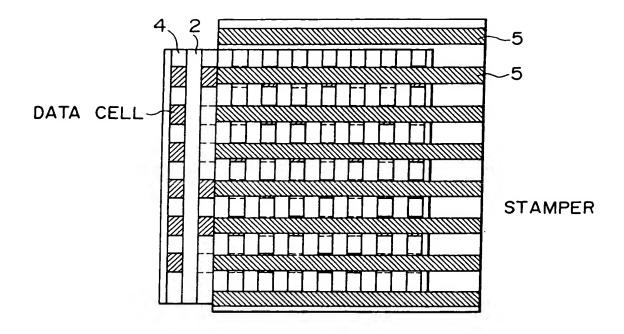
FIG. 13



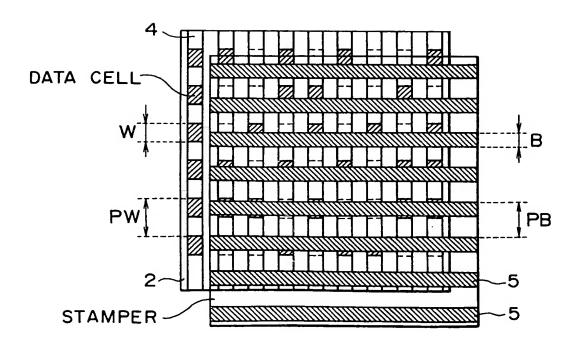
Atty Docket No. 09792909-5311
Filing Date: December 4, 2001
U.S. Seriai No.: 10/006,007
Inventors: Katsuhisa ARATANI
"METHOD TO PRODUCE DATA CELL REGION AND
SYSTEM REGION FOR SEMICONDUCTOR MEMORY"

Page 11 of 18

F I G. 14

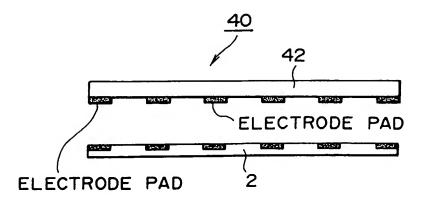


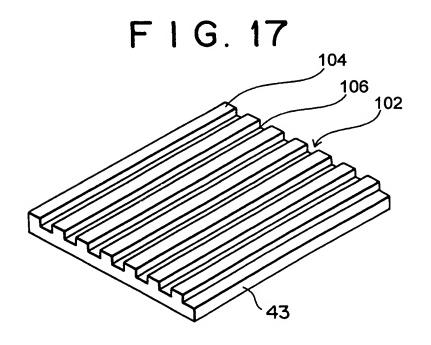
F I G. 15



Atty Docket No. 09792909-5311
Filing Date: December 4, 2001
U.S. Serial No.: 10/006,007
Inventors: Katsuhisa ARATANI
"METHOD TO PRODUCE DATA CELL REGION AND
SYSTEM REGION FOR SEMICONDUCTOR MEMORY"
Page 12 of 18

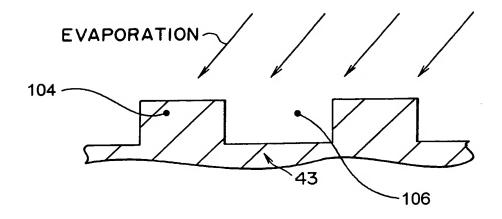
F I G. 16

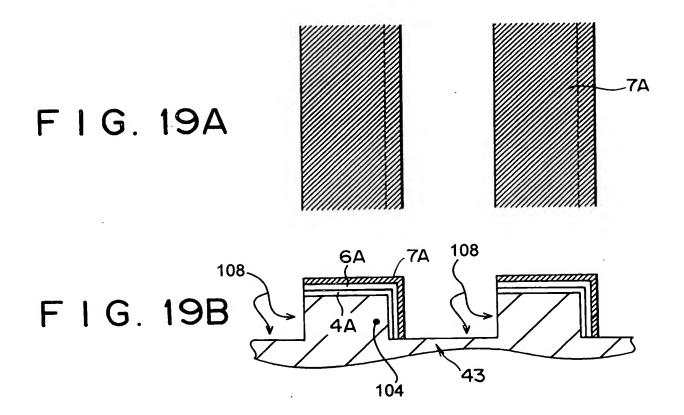




Atty Docket No. 09792909-5311
Filing Date: December 4, 2001
U.S. Serial No.: 10/006,007
Inventors: Katsuhisa ARATANI
"METHOD TO PRODUCE DATA CELL REGION AND
SYSTEM REGION FOR SEMICONDUCTOR MEMORY"
Page 13 of 18

F I G. 18

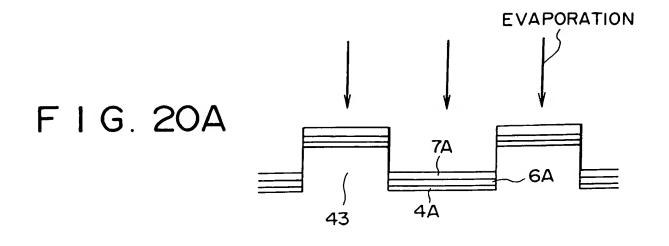


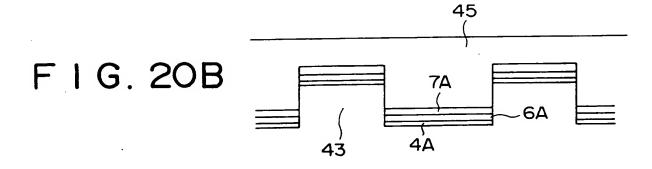


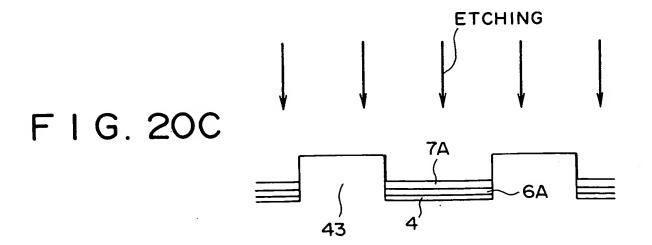
Atty Docket No. 09792909-5311 Filing Date: December 4, 2001 U.S. Serial No.: 10/006,007 Inventors: Katsuhisa ARATANI

"METHOD TO PRODUCE DATA CELL REGION AND SYSTEM REGION FOR SEMICONDUCTOR MEMORY"

Page 14 of 18

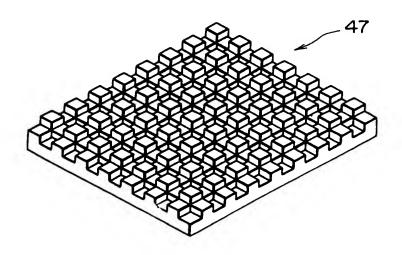


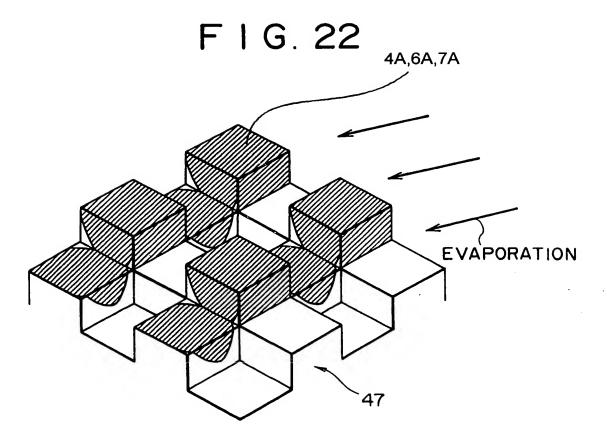




Atty Docket No. 09792909-5311
Filing Date: December 4, 2001
U.S. Serial No.: 10/006,007
Inventors: Katsuhisa ARATANI
"METHOD TO PRODUCE DATA CELL REGION AND
SYSTEM REGION FOR SEMICONDUCTOR MEMORY"
Page 15 of 18

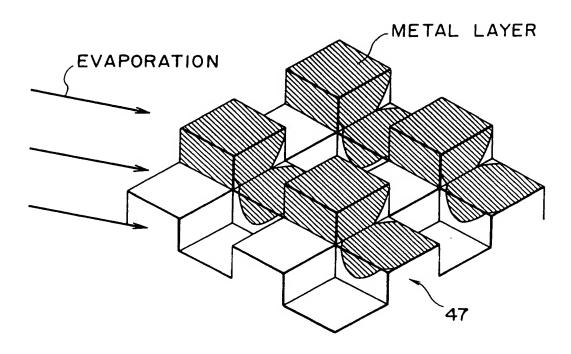
F I G. 21





Atty Docket No. 09792909-5311
Filing Date: December 4, 2001
U.S. Serial No.: 10/006,007
Inventors: Katsuhisa ARATANI
"METHOD TO PRODUCE DATA CELL REGION AND
SYSTEM REGION FOR SEMICONDUCTOR MEMORY"
Page 16 of 18

F I G. 23



F I G. 24

